



SEQUENCE LISTING

GENERAL INFORMATION:

APPLICANT: Olsen, et al.

(ii) TITLE OF INVENTION: Vascular Endothelial Growth Factor 3

(iii) NUMBER OF SEQUENCES: 6

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
CECCHI, STEWART & OLSTEIN
(B) STREET: 6 BECKER FARM ROAD
(C) CITY: ROSELAND
(D) STATE: NEW JERSEY
(E) COUNTRY: USA
(F) ZIP: 07068

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5 INCH DISKETTE
(B) COMPUTER: IBM PS/2
(C) OPERATING SYSTEM: MS-DOS
(D) SOFTWARE: WORD PERFECT 5.1

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/469,641
(B) FILING DATE: June 6, 1995
(C) CLASSIFICATION:

(vii) ATTORNEY/AGENT INFORMATION:

(A) NAME: MULLINS, J.G.
(B) REGISTRATION NUMBER: 33,073
(C) REFERENCE/DOCKET NUMBER: 325800-463 (PF207)

(viii) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 201-994-1700
(B) TELEFAX: 201-994-1744

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS

(A) LENGTH: 666 BASE PAIRS
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

ATGAGAAGGT	GTAGAATAAG	TGGGAGGCC	CCGGCGCCCC	CCGGTGTCCC	CGCCCAAGGCC	60
CCTGTCTCCC	AGCCTGATGC	CCCTGGCCAC	CAGAGGAAAG	TGGTGTCATG	GATAAGATGTG	120
TATACTCGCG	CTACCTGCCA	GCCCCGGGAG	GTGGTGGTGC	CCTTGACTGT	GGAGCTCATG	180
GGCACCGTGG	CCAAAACAGCT	GGTGGCCAGC	TGGGTGACTG	TGCAGCGCTG	TGGTGGCTGC	240
TGCCCTGACG	ATGGCCTGGA	GTGTGTGCC	ACTGGGCAGC	ACCAAGTCCG	GATGCAGATC	300
CTCATGATCC	GGTACCCGAG	CAGTCAGCTG	GGGGAGATGT	CCCTGGAAGA	ACACAGCCAG	360
TGTGAATGCA	GACCTAAAAA	AAAGGACAGT	GCTGTGAAGC	CAGACAGGGC	TGCTACTCCC	420
CACCACCGTC	CCCAGCCCCG	TTCTGTTCG	GGCTGGGACT	CTGCCCCCGG	AGCACCCCTCC	480
CCAGCTGACA	TCACCCAATC	CCACTCCAGC	CCCAGGCC	TCTGCCACG	CTGCACCCAG	540
CACCACCACT	GCCCTGACCC	CCGGACCTGC	CGCTGCCGCT	GTCGACGCCG	CAGCTTCCTC	600
CGTTGTCAAG	GGCGGGGCTT	AGAGCTAAC	CCAGACACCT	GCAGGTGCCG	GAAGCTGCGA	660
AGGTGA						666

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS

- (A) LENGTH: 221 AMINO ACIDS
- (B) TYPE: AMINO ACID
- (C) STRANDEDNESS:
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: PROTEIN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met	Arg	Arg	Cys	Arg	Ile	Ser	Gly	Arg	Pro	Pro	Ala	Pro	Pro	Gly	
					5				10						15
Val	Pro	Ala	Gln	Ala	Pro	Val	Ser	Gln	Pro	Asp	Ala	Pro	Gly	His	
					20				25						30
Gln	Arg	Lys	Val	Val	Ser	Trp	Ile	Asp	Val	Tyr	Thr	Arg	Ala	Thr	
					35				40						45
Cys	Gln	Pro	Arg	Glu	Val	Val	Val	Pro	Leu	Thr	Val	Glu	Leu	Met	
				50				55							60
Gly	Thr	Val	Ala	Lys	Gln	Leu	Val	Pro	Ser	Cys	Val	Thr	Val	Gln	
				65				70							75
Arg	Cys	Gly	Gly	Cys	Cys	Pro	Asp	Asp	Gly	Leu	Glu	Cys	Val	Pro	
				80				85							90
Thr	Gly	Gln	His	Gln	Val	Arg	Met	Gln	Ile	Leu	Met	Ile	Arg	Tyr	
				95				100							105
Pro	Ser	Ser	Gln	Leu	Gly	Glu	Met	Ser	Leu	Glu	Glu	His	Ser	Gln	
				110				115							120
Cys	Glu	Cys	Arg	Pro	Lys	Lys	Lys	Asp	Ser	Ala	Val	Lys	Pro	Asp	
				125				130							135
Arg	Ala	Ala	Thr	Pro	His	His	Arg	Pro	Gln	Pro	Arg	Ser	Val	Pro	
				140				145							150
Gly	Trp	Asp	Ser	Ala	Pro	Gly	Ala	Pro	Ser	Pro	Ala	Asp	Ile	Thr	
				155				160							165
Gln	Ser	His	Ser	Ser	Pro	Arg	Pro	Leu	Cys	Pro	Arg	Cys	Thr	Gln	
				170				175							180
His	His	Gln	Cys	Pro	Asp	Pro	Arg	Thr	Cys	Arg	Cys	Arg	Cys	Arg	
				185				190							195

Arg Arg Ser Phe Leu Arg Cys Gln Gly Arg Gly Leu Glu Leu Asn
200 205 210
Pro Asp Thr Cys Arg Cys Arg Lys Leu Arg Arg
215 220

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS
(A) LENGTH: 29 BASE PAIRS
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: Oligonucleotide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

GCATGATCC CAGCCTGATG CCCCTGGCC

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(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS
(A) LENGTH: 30 BASE PAIRS
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: Oligonucleotide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GCATTCTAGA CCCTGCTGAG TCTGAAAAGC

30

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS
(A) LENGTH: 29 BASE PAIRS
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: Oligonucleotide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GACTGCATGC ACCAGAGGAA AGTGGTGTC

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(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS
(A) LENGTH: 29 BASE PAIRS
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: Oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GACTAGATCT CCTTCGCAGC TTCCGGCAC

29

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS
(A) LENGTH: AMINO ACIDS
(B) TYPE: AMINO ACID
(C) STRANDEDNESS:
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: PROTEIN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Pro Xaa Cys Val Xaa Xaa Xaa Arg Cys Xaa Gly Cys Cys Asn
5 10

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS
(A) LENGTH: 231 AMINO ACIDS
(B) TYPE: AMINO ACID
(C) STRANDEDNESS:
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: PROTEIN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu
5 10 15
Leu Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala
20 25 30
Glu Gly Gly Gln Asn His Glu Val Val Lys Phe Met Asp Val
35 40 45
Tyr Gln Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile
50 55 60
Phe Gln Glu Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser
65 70 75

Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly
80 85 90
Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr Met Gln Ile
95 100 105
Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu Met Ser
110 115 120
Phe Leu Gln His Asn Lys Cys Glu Cys Arg Pro Lys Lys Asp Arg
125 130 135
Ala Arg Gln Glu Lys Lys Ser Val Arg Gly Lys Gly Lys Gly Gln
140 145 150
Lys Arg Lys Arg Lys Lys Ser Arg Tyr Lys Ser Trp Ser Val Tyr
155 160 165
Val Gly Ala Arg Cys Cys Leu Met Pro Trp Ser Leu Pro Gly Pro
170 175 180
His Pro Cys Gly Pro Cys Ser Glu Arg Arg Lys His Leu Phe Val
185 190 195
Gln Asp Pro Gln Thr Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser
200 205 210
Arg Cys Lys Ala Arg Gln Leu Glu Leu Asn Glu Arg Thr Cys Arg
215 220 225
Cys Asp Lys Pro Arg Arg
230